| Submissions to EPA's Request for Input on Forma Topics Jackson Morrill, American Chemistry Council Formaldehyde Panel On behalf of the American Chemistry Council Formaldehyde Panel, I submitted a letter to EPA's David Bussard by e-mail on November | Speaker |
|---|--|
| On behalf of the American Chemistry Council Formaldehyde Panel, | |
| | |
| I submitted a letter to EDA's David Puscard by a mail on Newamber | Theme: Epidemiologic research |
| | Topic #1: |
| 22, 2013 that represents our response to this survey. In the letter, | Harvey Checkoway, David Savitz, |
| we describe in some detail the following suggested topics: | Aaron Blair, Laura Beane Freeman |
| Theme: Epidemiological research examining the potential | Topic #2: |
| | Harvey Checkoway, Patricia |
| | Stewart, Peter Lees |
| | TTI Mr l |
| | Theme: Mechanistic evidence |
| | Topic #1: |
| | Harvey Clewell, Rory conolly, Mel |
| | Andersen, Paul Schlosser, James |
| | Swenberg Topic #2: |
| | Luoping Zhang, Martyn Smith, |
| | Richard Irons, Richard Albertini, |
| Cancers | Michael Thirman, James Swenberg |
| Theme: Evidence pertaining to the influence of formaldehyde that | Michael Till mail, james swellberg |
| | Theme: Endogenous |
| | formaldehyde |
| | Topic #1: |
| | James Swenberg, Thomas Starr, |
| | Harvey Clewell, Jennifer Jinot, Ravi |
| Theme : Integration of the Scientific Evidence for the Plausibility of | Subramanium |
| Lymphohematopoietic Cancer Following Formaldehyde Exposure | |
| Topic #1: What are possible approaches that may integrate the | Theme: Integration of evidence |
| data and resolve differences in interpretation of the scientific | Topic #1: |
| evidence between experts? | Paulo Boffetta, Lorenz Rhomberg, |
| | Hans-Olav Adami, Ivan Rusyn, |
| | Jonathan Samet |
| | |
| Dale Hattis, Clark University | |
| | Dale Hattis, Clark University |
| | Formaldehyde carcinogenesis |
| | References provided. |
| - | |
| | Lorenz R. Rhomberg, PhD FATS |
| | Gradient |
| | 20 University Road, Cambridge |
| | MA 02138 |
| | lrhomberg@gradientcorp.com |
| | 617.395.5552 |
| | E-manution in wish |
| | Expertise in risk assessment, |
| | weight-of-evidence methods, |
| | toxicology, pharmacokinetics, |
| - · · · | quantitative dose-response |
| | assessment, cross species extrapolation. |
| | ezu apotation. |
| | |
| | association between formaldehyde exposure and lymphohematopoietic cancers (leukemia and lymphomas) Topic #1: Evidence of Lymphohematopoietic Cancers from Epidemiological Studies Topic #2: Characterization of Formaldehyde Exposure from Epidemiological Studies Theme: Mechanistic evidence relevant to formaldehyde inhalation exposure and these types of cancers Topic #1: Pharmacokinetics of Formaldehyde Topic #2: Defining the mode of action for lymphohematopoietic cancers Theme: Evidence pertaining to the influence of formaldehyde that is produced endogenously (by the body during normal biological processes) on the toxicity of inhaled formaldehyde, and implications for the health assessment Topic #1: Consideration of Endogenous Formaldehyde Production in Dose-Response Modeling Theme: Integration of the Scientific Evidence for the Plausibility of Lymphohematopoietic Cancer Following Formaldehyde Exposure Topic #1: What are possible approaches that may integrate the data and resolve differences in interpretation of the scientific |

| 4 | David Coggon, University of Southampton | |
|---|--|---|
| 4 | David Coggon, University of Southampton | My team has recently completed extended follow-up of a cohort of 14,008 male chemical workers at six factories in England and Wales, with more than 2000 additional deaths since the last published follow-up. As well as a personyears analysis of mortality, we have conducted a nested casecontrol study that included 45 men with incident or fatal myeloid leukaelmia and 450 controls. We plan to submit a paper for publication within the next week. The study was funded by the Colt Foundation, a charity unconnected with formaldehyde or the chemical industry. If you wish, I would be pleased to present the findings of our study at the workshop, although I would need funding for travel. The last report of the study was: Coggon D, Harris EC, Poole J, Palmer KT. Extended follow-up of a cohort of British chemical workers exposed to formaldehyde. J Natl Cancer Inst 2003;95:1608-15 I was a member of the IARC monograph group on |
| | | formaldehyde in 2004. |
| 5 | Kenny Crump, NONE | |
| | | Kenny S. Crump (myself), no affiliation quantitative risk assessment provided references |
| 6 | Thomas Starr, TBS Associates | |
| | Bounding Low-Dose Cancer Risks When Endogenous Exposure Is a Contributing Factor The conventional approach to quantitative risk assessment does not consider contributions to risk from endogenous sources. Promutagenic DNA adducts arising from both endogenous and exogenous formaldehyde sources have been detected and quantified in target and non-target tissues of rats and monkeys exposed to formaldehyde by inhalation. A novel "bottom-up" approach for bounding low-dose risks when endogenous exposures are present has been proposed (Starr and Swenberg, 2013), and its use with steady-state target tissue concentrations of formaldehyde-DNA adducts as an internal dose metric produces upper bound estimates of low-dose risk that are far smaller than | James A. Swenberg, PhD, DVM, and Kenan Distinguished Professor Department of Environment Sciences & Engineering 253c Rosenau Hall, Campus Box 7431 Chapel Hill, NC 27599 USA Expertise: DNA adducts, cancer, formaldehyde Provided Relevant publications: Thomas B. Starr, PhD and |

| | those produced by EPA's conventional "top-down" analyses of | Principal |
|---|---|---|
| | human and animal cancer data vs. airborne formaldehyde | TBS Associates |
| | concentration. These alternative estimates merit full and careful | 7500 Rainwater Road |
| | consideration in the IRIS toxicological review of formaldehyde. | Raleigh NC 27615-3700 USA |
| | | Expertise: dose response |
| | | modeling, cancer, formaldehyde, |
| | | quantitative risk assessment |
| | | Provided Relevant publications: |
| | | Greg Paoli, MASc, Principal Risk Scientist |
| | | Risk Sciences International |
| | | 55 Metcalfe Street Suite 700 Ottawa ON K1P 6L5 |
| | | Expertise: quantitative risk |
| | | assessment |
| | | Also a member of the Science |
| | | Panel for the Alliance for Risk |
| | | Assessment (ARA) Workshop VI |
| | | Case Study: Endogenous |
| | | Formation Implications for |
| | | Formaldehyde Carcinogenicity. 28 |
| | | May 2013. USEPA, Crystal City VA. |
| | | Daniel Krewski, PhD |
| | | University of Ottawa |
| | | Ravi Subramaniam, USEPA |
| | | Paul White, USEPA |
| | | Dave Bussard, USEPA |
| 7 | Unknown | Jennifer Jinot, USEPA |
| | | "Luoping Zhang, PhD. |
| | | Adjunct Professor, Division of |
| | | Environmental Health Sciences |
| | | University of California Berkeley |
| | | School of Public Health |
| | | Expertise: molecular mechanisms |
| | | of bone marrow toxicity caused by |
| | | formaldehyde; biomarkers of |
| | | these exposures |
| | | Provided Relevant publications: |
| | | "Martyn Smith, PhD |
| | | Professor of Toxicology, Division |
| | | of Environmental Health Sciences |
| | | |

| | | University of California Berkeley |
|---|---|---|
| | | School of Public Health |
| | | Expertise: molecular toxicology, |
| | | biomarkers of exposure |
| | | Provided Relevant publications: |
| | | "Ronald Melnick |
| | | Indepedent Consultant, Ron |
| | | Melnick Consulting LLC |
| | | Expertise: toxicology, molecular |
| | | biology |
| | | Provided Relevant publications: |
| 8 | Stewart Holm, American Forest & Paper Association | |
| | Evidence Based Data Integration or Weight of the Evidence | Evidence-based integration: |
| | Evaluation - This topic is consistent with the goals EPA has set | Lorenz Rhomberg, Gradient, PB- |
| | forth in the application of systematic review methodology. It is | PK, Decision Analysis |
| | very important for the wealth of data that is available for formaldehyde. Conflicting studies should be evaluated | Hans-Olav Adami, Harvard |
| | transparently and a decision should be made if important Hill | mans-Olav Adami, Halvalu |
| | criteria elements are sufficient to judge an endpoint causal or if a | Epidemiology: |
| | positive finding is more likely due to chance. Reaching conclusions | Laura Bean Freeman, NCI; James |
| | on key endpoints should be a reasonable goal for this workshop. | Collins, Dow; Harvey Checkoway, |
| | | U. of WA; Jack Mandell, Exponent |
| | | Mechanistic Evidence: |
| | | Rory Conolly, EPA; Rusty Thomas, |
| | | EPA; Paul Schlosser, EPA; Tom |
| | | Starr, TBS & Associates; Melvin |
| | | Anderson, Hamner; James |
| | | Swenberg, U. of NC; Ivan Rusyn, U. |
| | | of NC; Richard Corely, Battelle; Jeff |
| | | Schroeter, Applied Research |
| | | Associates; Gunter Speit, U. of Ulm |
| | | Implications of Endogenous |
| | | Formadehyde: |
| | | Paul White, EPA; Ravi |
| | | Subramanium, EPA; James |
| | | Swenberg; Tom Starr; Rusty |
| | | Thomas; Harvey Clewell, Hamner; |
| | | David Doorman, NC State U.; Annie Jarabek, EPA |
| 9 | Nancy Beck, ACC | Jaraven, Er A |
| | Please see email that was sent 11/22/2013 to Dave Bussard. | |
| | The note below says information can be sent to the docket, | |
| | however EPA has not provided any information regarding how to | |
| | find this docket, what its number is, or where it is located. In | |
| | addition, EPA has not even provided the name of an individual to | |
| | contact regarding this workshop. | |
| | I have sent a note to David Bussard at EPA with ACC comments. | |
| | The email was sent 11/22/2013, in hopes that David Bussard is | |
| | The chian was sent II; Ba; BoIs, in hopes that David Bassard is | 1 |

| | the correct point of contact. | |
|----|--|--|
| 10 | David Eastmond, University of California, Riverside | |
| | I would suggest including a presentation providing an overview of chemical and radiation-induced leukemogenesis and the agents known to induce leukemia in humans. | David A. Eastmond University of California, Riverside |
| 11 | American Chemistry Council | |
| | | |
| | | |